

# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

**NABL** - Accredited Laboratory as per ISO / IEC-17025 :2005



T-2377

Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CEMENT/2016-17

Date: 11.04.2016

## TEST REPORT ON CEMENT

|                    |   |                                                                                                                                                               |
|--------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| * CUSTOMER         | : | Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.                                                                                       |
| *AGENCY            | : | Mr. N.M. Shiva Kumar,<br>#7, 2 <sup>nd</sup> Bock, Juganahalli, Rajajinagara, Bangalore.                                                                      |
| *NAME OF THE WORK  | : | Construction of RCC drain at 6 <sup>th</sup> Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore. |
| *REFERENCE         | : | AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016                                                                                                                 |
| SAMPLE ID          | : | Cement                                                                                                                                                        |
| SAMPLE RECEIVED ON | : | 06.04.2016                                                                                                                                                    |
| PERIOD OF TESTING  | : | 06.04.2016 to 11.04.2016                                                                                                                                      |



The results of the tests conducted on the cement sample are as follows:

| Sl. No | Descriptions                     | Test Method as per IS           | Test Result | Requirements as per IS: 8112-2013 |
|--------|----------------------------------|---------------------------------|-------------|-----------------------------------|
| 1      | Standard Consistency             | IS-4031 (Part -4) 1988(RA-2009) | 29.50 %     | -                                 |
| 2      | a) Initial Setting Time          | IS-4031 (Part -5) 1988(RA-2009) | 140 Minutes | Not Less than 30 Minutes          |
|        | b) Final Setting Time            | IS-4031 (Part -5) 1988(RA-2009) | 485 Minutes | Not More than 600 Minutes         |
| 3      | Soundness by Le Chartlier Method | IS-4031 (Part-3) 1988(RA-2009)  | 1 mm        | Not more than 10mm                |

\*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

\*\*\*\*\*

*Zeelha*  
AE

*Vishwanath*  
**VISHWANATH. I.A.**  
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : [www.civiltechconsultants.com](http://www.civiltechconsultants.com)

E-mail : [vishwanath.ia@civiltechconsultants.com](mailto:vishwanath.ia@civiltechconsultants.com) / [info@civiltechconsultants.com](mailto:info@civiltechconsultants.com)



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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/SAND-Gradation/2016-17

: 11.04.2016

## TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

\* **Customer** : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

\* **Agency** : Mr. N.M. Shiva Kumar,  
#7, 2nd Bock, Juganahalli, Rajajinagara, Bangalore.

\* **Name of Work** : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward  
No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016

**Technical Reference** : IS : 2386 Part 1 - 1963 RA-2007

**Sample ID** : Fine Aggregates

**Sample Received on** : 06.04.2016

**Date of Testing** : 11.04.2016



Total Wt. of Aggregates in gms **1000**

| Is Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2007) |         |          |         |
|---------------------|--------------------------------|-----------------------------------------------|---------|----------|---------|
|                     |                                | Zone-I                                        | Zone-II | Zone-III | Zone-IV |
| 100                 | 100                            | 100                                           | 100     | 100      | 100     |
| 4.75                | 96.00                          | 90-100                                        | 90-100  | 90-100   | 95-100  |
| 2.36                | 76.80                          | 60-95                                         | 75-100  | 85-100   | 95-100  |
| 1.18                | 55.30                          | 30-70                                         | 55-90   | 75-100   | 90-100  |
| 600 Micron          | 25.70                          | 15-34                                         | 35-59   | 60-79    | 80-100  |
| 300 Micron          | 11.50                          | 5-20                                          | 8-30    | 12-40    | 15-50   |
| 150 Micron          | 5.90                           | 0-10                                          | 0-10    | 0-10     | 0-15    |

\* Information is furnished by the Customer/Representative

**Remarks** : This sample is under Zone-I specific limits.

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*Signature*  
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*Signature*  
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Tele Fax : 23223227, Website : [www.civiltechconsultants.com](http://www.civiltechconsultants.com)

E-mail : [vishwanath.ia@civiltechconsultants.com](mailto:vishwanath.ia@civiltechconsultants.com) / [info@civiltechconsultants.com](mailto:info@civiltechconsultants.com)



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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/AGG/GR/2016-17

: 11.04.2016

## TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

\* **Customer** : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

\* **Agency** : Mr. N.M. Shiva Kumar,  
#7, 2nd Bock, Juganahalli, Rajajinagara, Bangalore.

\* **Name of Work** : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.

**Reference** : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016

**Technical Reference** : IS : 2386 Part 1 -1963 RA-2007

**Sample ID** : Coarse Aggregates (40mm)

**Sample Received on** : 06.04.2016

**Date of Testing** : 11.04.2016



Total Wt. of Aggregates in gms= 7000

| Is Sieve Size in mm | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA- 2007) |              |
|---------------------|--------------------------------|-----------------------------------------------|--------------|
|                     |                                | Graded                                        | Single Sized |
| 80                  | 100                            | 100                                           | -            |
| 63                  | 100                            | -                                             | 100          |
| 40                  | 97.36                          | 95-100                                        | 85-100       |
| 20                  | 36.64                          | 30-70                                         | 0-20         |
| 10                  | 14.86                          | 10-35                                         | 0-5          |
| 4.75                | 2.00                           | 0-5                                           | -            |

\* Information is furnished by the Customer/Representative

**Remarks :** This sample is under Graded specific limits.

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

**NABL** - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.10/NMSK/STEEL/2016-17

13.04.2016

## TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. N.M. Shiva Kumar**, #7, 2<sup>nd</sup> Block, Juganahalli, Rajajinagara, Bangalore.

Name of the Work : Construction of RCC drain at 6<sup>th</sup> Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016

Date of Test : 13.04.2016

Technical Reference : IS: 1786-2008



| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH                                  |                                                      |                                 | Bend Test | Rebend Test |
|--------|-------------------------|-------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------|-----------|-------------|
|        |                         |                         | 0.20% proof stress/Yield stress N/mm <sup>2</sup> | Tensile strength (Ultimate stress) N/mm <sup>2</sup> | Elongation percent gauge length |           |             |
| 1      | 8                       | 0.40                    | 510                                               | 552                                                  | 13.05                           | O.K       | O.K         |

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**M/s. Civil-Tech Consultants & Engineers**  
# 23/14, 7th Cross, 3rd Stage,  
4th Block, Shakthiganapathinagara,  
Basaveshwaranagar,  
Bangalore-560079.

*Zeelha*  
AE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

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Job No.: CTCE/BBMP/W.No.10/NMSK/STEEL/2016-17

13.04.2016

## TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : Mr. N.M. Shiva Kumar,  
#7, 2<sup>nd</sup> Block, Juganahalli, Rajajinagara, Bangalore.

Name of the Work : Construction of RCC drain at 6<sup>th</sup> Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016

Date of Test : 13.04.2016

Technical Reference : IS: 1786-2008



| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH                                  |                                                      |                                 | Bend Test | Rebend Test |
|--------|-------------------------|-------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------|-----------|-------------|
|        |                         |                         | 0.20% proof stress/Yield stress N/mm <sup>2</sup> | Tensile strength (Ultimate stress) N/mm <sup>2</sup> | Elongation percent gauge length |           |             |
| 1      | 10                      | 0.62                    | 513                                               | 556                                                  | 13.25                           | O.K       | O.K         |

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Basaveshwaranagar,  
Bangalore-560079.

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E-mail : [vishwanath.ia@civiltechconsultants.com](mailto:vishwanath.ia@civiltechconsultants.com) / [info@civiltechconsultants.com](mailto:info@civiltechconsultants.com)



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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

25.04.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- \* **Customer** : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* **Agency** : Mr. N.M. Shiva Kumar,  
#7, 2nd Bock, Juganahalli, Rajajinagara, Bangalore.
- \* **Name of the work** : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* **Reference** : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016
- \* **Sample ID** : RCC Drain Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm<sup>2</sup>
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- \* **Grade of Concrete** : M<sub>20</sub>



**Compressive Strength as on** : 7th day

**Sample Received on** : 25.04.2016

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 18.04.2016        | 25.04.2016      | 8.112               | 359.6             | 15.98                                     |
| 2      | 18.04.2016        | 25.04.2016      | 8.259               | 362.3             | 16.10                                     |
| 3      | 18.04.2016        | 25.04.2016      | 8.326               | 372.3             | 16.55                                     |

\* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

16.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- \* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Agency : Mr. N.M. Shiva Kumar,  
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
- \* Name of the work : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016
- \* Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm<sup>2</sup>
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- \* Grade of Concrete : M<sub>20</sub>



Compressive Strength as on : 28th day

Sample Received on : 16.05.2016

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 18.04.2016        | 16.05.2016      | 8.182               | 479.6             | 21.32                                     |
| 2      | 18.04.2016        | 16.05.2016      | 8.290               | 511.6             | 22.74                                     |
| 3      | 18.04.2016        | 16.05.2016      | 8.315               | 510.2             | 22.68                                     |

\* Information is furnished by the Customer/Representative

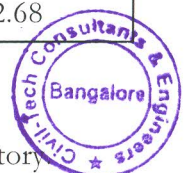
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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

28.04.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- \* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Agency : Mr. N.M. Shiva Kumar,  
#7, 2nd Bock, Juganahalli, Rajajinagara, Bangalore.
- \* Name of the work : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016
- \* Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm<sup>2</sup>
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- \* Grade of Concrete : M<sub>20</sub>
- Compressive Strength as on : 7th day



Sample Received on : 28.04.2016

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 21.04.2016        | 28.04.2016      | 8.265               | 350.2             | 15.56                                     |
| 2      | 21.04.2016        | 28.04.2016      | 8.356               | 370.2             | 16.45                                     |
| 3      | 21.04.2016        | 28.04.2016      | 8.418               | 373.6             | 16.60                                     |

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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

19.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- \* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Agency : Mr. N.M. Shiva Kumar,  
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
- \* Name of the work : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.
- \* Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016
- \* Sample ID : RCC Drain Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm<sup>2</sup>
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- \* Grade of Concrete : M<sub>20</sub>



Compressive Strength as on : 28th day

Sample Received on : 19.05.2016

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 21.04.2016        | 19.05.2016      | 8.110               | 498.9             | 22.17                                     |
| 2      | 21.04.2016        | 19.05.2016      | 8.280               | 516.3             | 22.95                                     |
| 3      | 21.04.2016        | 19.05.2016      | 8.320               | 525.6             | 23.36                                     |

\* Information is furnished by the Customer/Representative

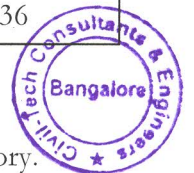
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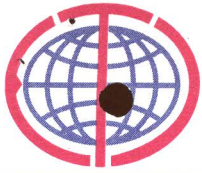
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Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

02.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- \* Customer : Asst. Executive Engineer, Vidyanarayapura Sub Division, BBMP, Bangalore.
- \* Agency : Mr. N.M. Shiva Kumar,  
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.
- \* Name of the work : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyanarayapura Sub Division, BBMP, Bangalore.
- \* Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016
- \* Sample ID : Cement Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm<sup>2</sup>
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- \* Grade of Concrete : M<sub>15</sub>



Compressive Strength as on : 7th day

Sample Received on : 02.05.2016

| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 25.04.2016        | 02.05.2016      | 8.119               | 256.3             | 11.39                                     |
| 2      | 25.04.2016        | 02.05.2016      | 8.256               | 265.3             | 11.79                                     |
| 3      | 25.04.2016        | 02.05.2016      | 8.336               | 270.3             | 12.01                                     |

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

*30/04/16*  
*AE*

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*Vishwanath*  
**VISHWANATH. I.A.**  
Chief Executive Officer



#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : [www.civiltechconsultants.com](http://www.civiltechconsultants.com)

E-mail : [vishwanath.ia@civiltechconsultants.com](mailto:vishwanath.ia@civiltechconsultants.com) / [info@civiltechconsultants.com](mailto:info@civiltechconsultants.com)



# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.10/NMSK/CSR-04/005a/CUBE/2016-17

23.05.2016

## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

\* Customer : Asst. Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

\* Agency : Mr. N.M. Shiva Kumar,  
#7, 2nd Block, Juganahalli, Rajajinagara, Bangalore.

\* Name of the work : Construction of RCC drain at 6th Cross in Patel Pillegowda Layout in Ward No.10 (Doddabommasabdra), Vidyaranyapura Sub Division, BBMP, Bangalore.

\* Reference : AEE/BBMP/VSD/PR/303/2016-17 Dated: 06.04.2016

\* Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm<sup>2</sup>

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

\* Grade of Concrete : M<sub>15</sub>

Compressive Strength as on : 28th day

Sample Received on : 23.05.2016



| Sl.No. | * Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-------------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 25.04.2016        | 23.05.2016      | 8.119               | 369.6             | 16.43                                     |
| 2      | 25.04.2016        | 23.05.2016      | 8.235               | 379.6             | 16.87                                     |
| 3      | 25.04.2016        | 23.05.2016      | 8.312               | 385.6             | 17.14                                     |

\* Information is furnished by the Customer/Representative

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*Signature*  
AE

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*Signature*  
VISHWANATH. I.A.  
Chief Executive Officer